CLAIMS

1. A method for producing derivatives of N-retinoylaminoalkane sulfonic acid, the method comprising providing retinoic acid, chloroformate, aminoalkanesulfonic acid selected from the group consisting of cysteic acid and alkyl ester thereof, cysteinesulfinic acid and alkyl ester thereof, homocysteic acid and alkyl ester thereof, homocysteinesulfinic acid and alkyl esters thereof, taurine and derivatives thereof, and an organic solvent, and a base, mixing said components under substantial absence of oxidizing compounds thereby forming a reaction mixture comprising at least a liquid phase, wherein the liquid phase is one phase and the derivatives of N-retinoylaminoalkane sulfonic acid are formed in said liquid phase.

2. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from N-(13-cis-retinoyl)-cysteic acid alkyl ester and N-(all-trans-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from 13-cis-retinoic acid or all-trans-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl ester.

3. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from the sodium salts of N-(13-cis-retinoyl)-cysteic acid alkyl ester and N-(all-trans-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from 13-cis-retinoic acid or all-trans-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl ester.

4. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from N-(13-cis-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from 13-cis-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl

ester.

5. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from the sodium salt of N-(13-cis-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from 13-cis-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl ester.

6. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from N-(all-trans-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from all-trans-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl ester.

7. The method according to claim 1, wherein the derivatives of N-retinoylaminoalkane sulfonic acid are selected from the sodium salt of N-(all-trans-retinoyl)-cysteic acid alkyl ester, the retinoic acid is selected from all-trans-retinoic acid, and the aminoalkane sulfonic acid selected from cysteic acid alkyl ester.

8. The method according to claim 1, wherein the organic solvent comprises at least an alcohol.

9. The method according to claim 8, wherein the organic solvent comprises an aprotic solvent and at least an alcohol.

10. The method according to claim 8, wherein the alcohol comprises from 1 to 10 carbon atoms.

11. The method according to claim 9, wherein the aprotic solvent is

selected from the group consisting of ethers, esters, amides, nitriles and sulfoxides.

12. The method according to claim 11, wherein the aprotic solvent is an ether.

13. The method according to claim 1, wherein the base is an amine.

14. The method according to claim 13, wherein the amine comprises aliphatic groups independent from each other comprising from 1 to 4 carbon atoms.

15. The method according to claim 13, wherein the base is triethylamine.